

Anti-STK3 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

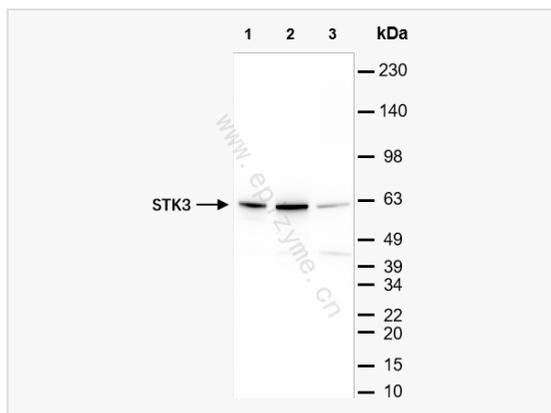
Catalog # R014203

Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	28A57P85
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human STK3
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-STK3 Rabbit mAb [28A57P85] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	0610042I06Rik, EC 2.7.11.1, FLJ90748, KB 1458E12.1, Kinase responsive to stress 1, KRS1, Mammalian STE20 like protein kinase 2, Mammalian STE20-like protein kinase 2, Mammalian sterile 20-like 2, Mess1, MST, MST-2, MST2, Mst3, Serine/threonine kinase 3 (STE20 homolog, yeast), Serine/threonine kinase 3 (Ste20, yeast homolog), Serine/threonine kinase 3, Serine/threonine protein kinase 3, Serine/threonine protein kinase Krs1, Serine/threonine-protein kinase 3, Serine/threonine-protein kinase Krs-1, STE20 like kinase MST2, STE20-like kinase MST2, Stk3, STK3_HUMAN, wu:fc19e11, zgc:55383.
Calculated MW	Calculated MW: 56 kDa; Observed MW: 63 kDa
Uniprot ID	Q13188
Gene ID	6788
Background	Stress-activated, pro-apoptotic kinase which, following caspase-cleavage, enters the nucleus and induces chromatin condensation followed by internucleosomal DNA fragmentation. Key component of the Hippo signaling pathway which plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein STK3/MST2 and STK4/MST1, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOBI, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ.
Cellular Location	Cytoplasm. Nucleus. The caspase-cleaved form cycles between nucleus and cytoplasm.
Tissue Location	Expressed at high levels in adult kidney, skeletal and placenta tissues and at very low levels in adult heart, lung and brain tissues.



Western Blot - Anti-STK3 Rabbit mAb [28A57P85]

All lanes: R014203 at 1:1,000 dilution

Lane 1: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lane 2: Rat heart whole tissue lysates

Lane 3: Rat muscle whole tissue lysates

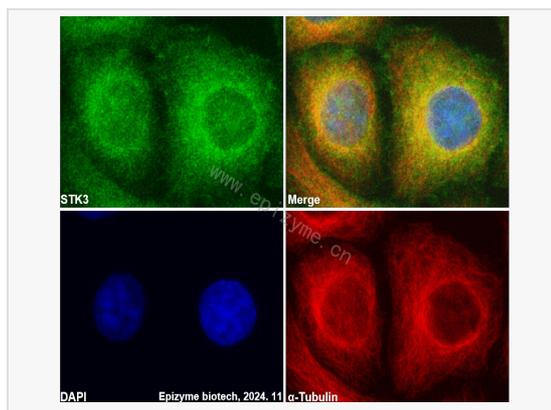
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 56 kDa

Observed band size: 63 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-STK3 Rabbit mAb [28A57P85]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014203 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).